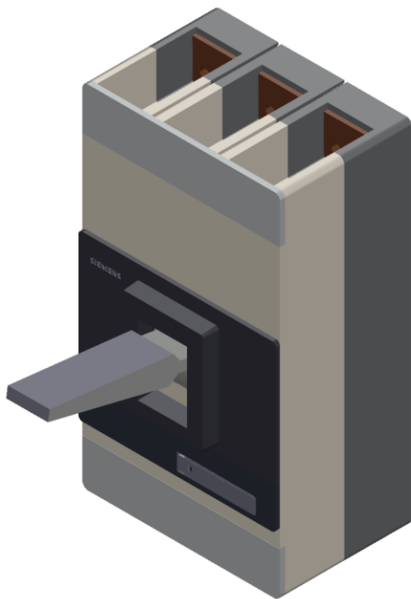


circuit breaker VL1200 UL; type NG (cat no. HNX3B900) non-interchangeable frame, with circuit breaker approval acc. to UL 489 high breaking capacity 3-pole, NEMA rating 65kA/480V, (molded case circuit breaker) trip unit TM, LI TA=40°C In=<= 900A, rated current II=6000...10000A short-circuit protection IR=900A ETU for line protection without connection accessories without auxiliary release without auxiliary/alarm switch



Model	
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	TM
General technical data	
number of poles	3
Size of the circuit-breaker	3VL7 UL
Electrical endurance (switching cycles) / typical	1 500

Usage category	A
Performance class for circuit breaker	N
Mechanical service life (switching cycles) / typical	3 000
Reference code / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750	Q
Operating frequency / maximum	30 1/s

Voltage

Rated operational voltage U _e / max.	690 V
Insulation voltage	
• rated value	800 V
• at AC / rated value	800 V
Surge voltage resistance / rated value	8 kV
Operating voltage	
• rated value / maximum	690 V
• for main current circuit / at AC / at 50 Hz / acc. to UL 489 / maximum	600 V
• for main current circuit / at AC / at 50 Hz / maximum	690 V
• for main current circuit / at AC / at 60 Hz / acc. to UL 489 / maximum	600 V
• for main current circuit / at AC / at 60 Hz / maximum	690 V

Protection class

Protection class IP	IP20
protection function of the overcurrent release	LI

Current

Continuous current / rated value	900 A
Derating temperature / for the rated value of the continuous current	50 °C
• acc. to UL 489	40 °C
adjustable pick-up value current	
• of the current-dependent overload release / Full-scale value	900 A
• of instantaneous short-circuit trip unit / initial value	5 000 A
• of instantaneous short-circuit trip unit / Full-scale value	10 000 A

Main circuit

Operating frequency	
• 1 / rated value	50 Hz
• 2 / rated value	60 Hz
Operating current	

• at 40 °C / rated value	900 A
• at 50 °C / rated value	837 A
• at 55 °C / rated value	774 A
• at 60 °C / rated value	774 A

Auxiliary circuit

Number of CO contacts / for auxiliary contacts	0
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	0

Suitability

suitability for use	system protection
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Adjustable parameters

adjustable pick-up value current / of the current-dependent overload release / initial value	900 A
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Product details

Product component	
• Trip indicator	No
• Auxiliary switch	No
• Voltage trigger	No
• undervoltage release	No
• undervoltage release with leading contact	No
Product extension / optional / motor drive	Yes

Product function

Product function	
• of thermal overload trip unit	fixed
• Ground fault protection	No
• for neutral conductors / Short-circuit and overload proof	No
• Overload protection	Yes

Short circuit

Operational short-circuit current breaking capacity (Ics)	
• at 240 V / rated value	50 kA
• at 415 V / rated value	35 kA
• at 690 V / rated value	15 kA
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	100 kA
• at 415 V / rated value	70 kA
• at 480 V / acc. to NEMA / rated value	65 kA
• at 600 V / acc. to NEMA / rated value	35 kA
• at 690 V / rated value	30 kA

Connections

Arrangement of electrical connectors / for main current circuit	front side
Type of electrical connection / for main current circuit	without connection accessoires

Mechanical Design




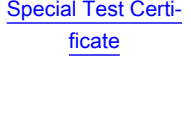

Height	406.5 mm
Width	228.5 mm
Depth	333.5 mm
Mounting type	fixed mounting

Environmental conditions

Ambient temperature / during operation	
<ul style="list-style-type: none"> • minimum • maximum 	0 °C 70 °C
Ambient temperature / during storage	
<ul style="list-style-type: none"> • minimum • maximum 	-40 °C 80 °C

Certificates

certificate of suitability	UL high switching capacity (H), non-interchangeable
<ul style="list-style-type: none"> • reference code / acc. to DIN EN 61346-2 	Q

General Product Approval	EMC	Declaration of Conformity	Test Certificates	Shipping Approval
Miscellaneous 			Special Test Certificate 	

other

[Confirmation](#)
 [Miscellaneous](#)
 [Environmental Conformations](#)
 [Manufacturer Declaration](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VL7190-2KN30-0AA0>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3VL7190-2KN30-0AA0>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VL7190-2KN30-0AA0

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>